Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Improvements to Roads and Drains at Saibaba temple road in Chowdeshwari ward no 02

					Estimate Cost Rs.			20.00 Lakhs	
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Earthwork in execavation for foundation of structure like culverts, retaining wall etc., as per drawing and technical specification, including setting out, construction of shoring and bracing, dressing of sides and bottom, back filling with approved material, disposal of balance earth as per specification, including cost of labour, HOM etc., complete. In all kinds of soil by manual means. (P.No.256, I.No.34.15.1 of PW,P&IWTD S.R 2018-19)								
	Basic rate	180.00							
	Area weightage 6%	10.80							
	Sub total	190.80							
	Lead 10 km	**82.60**							
	Total	**273.40**							
	For Drain & Culvert								
	Saibaba temple road								
	cross road	1	46.00	1.00	1.00	46.00			
	8th cross (east)	1	54.00	0.90	1.00	48.60			
						94.60	**Cum**	**273.40**	**25,863.64**
2	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications, MORTH specifications No. 408, (P.No.13, I.No.4-1.2 of PW,P&IWTD S.R 2018-19)								
	Basic rate	5194.00							
	Area weightage 6%	311.64							
	Total	**5505.64**							
	For Drain & Culvert								
	Saibaba temple road								
	cross road	1	46.00	1.00	0.15	6.90			
	8th cross (east)	1	54.00	0.90	0.15	7.29			
	Kondappa layout								
	15th cross	1	25.00	3.00	0.15	11.25			
	cross road 1	1	26.00	4.00	0.15	15.60			
	cross road 2	1	13.00	2.20	0.15	4.29			
	cross road 3	1	20.00	2.00	0.15	6.00			
	cross road 4	1	73.00	2.00	0.15	21.90			
	8th cross (east)	1	54.00	5.00	0.15	40.50			
						113.73	**Cum**	**5505.64**	**626156.44**

3	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (P.No.14, I.No.4.11 of PW, P&IWTD S.R 2018-19)									
	Basic rate	5659.00								
	Area weightage 6%	339.54								
	Total	**5998.54**								
	For Drain & Culvert									
	Saibaba temple road									
	Raft									
	cross road	1	46.00	0.90	0.15	6.21				
	8th cross (east)	1	54.00	0.75	0.15	6.08				
	Wall									
	cross road	2	46.00	0.15	0.60	8.28				
	8th cross (east)	2	54.00	0.15	0.60	9.72				
						30.29	**Cum**	**5998.54**	**181665.78**	
4	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (I No-4.31,P No-15)									
	Basic rate	358.00								
	Area weightage 6%	21.48								
	Total	**379.48**								
	For Drain & Culvert									
	Saibaba temple road									
	cross road	4	46.00		0.60	110.40				
	8th cross (east)	4	54.00		0.60	129.60				
						240.00	**Sqm**	**379.48**	**91,075.20**	
	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)									
	Basic rate	69804.00								
	Area weightage 6%	4188.24								
	Total	**73992.24**								
	For Drain & Culvert									
	60Kg/Cum of Concrete		30.29	60.00		1.82				
						1.82	**Tn**	**73992.24**	**134451.30**	
	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)									
	Data rate	2337.00								

	For Drain								
	Saibaba temple road								
	cross road	1	37.00	0.90		33.30			
	8th cross (east)	1	54.00	0.75		40.50			
	missing/damaged slabs	9	0.60	0.90		4.86			
						78.66	**Sqm**	**2337.00**	**183828.42**
7	Providing and Fixing pre cast covering Slab 250mm thick made out of CC M25 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	Saibaba temple road								
	Culvert	1	9.00	1.20		10.80			
						10.80	**Sqm**	**5418.00**	**58,514.40**
8	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (Page No140., I.No.18.47 of KPWD S.R 2018-19).								
	Basic rate	899.00							
	6.00% AW	53.94							
	Sub total	**952.94**							
	Lead 10 km	**82.60**							
	Total	**1035.54**							
	Kondappa layout								
	15th cross	1	25.00	3.00	0.20	15.00			
	cross road 1	1	26.00	4.00	0.20	20.80			
	cross road 2	1	13.00	2.20	0.20	5.72			
	cross road 3	1	20.00	2.00	0.20	8.00			
	cross road 4	1	73.00	2.00	0.20	29.20			
	8th cross (east)	1	54.00	5.00	0.20	54.00			
						132.72	**Cum**	**1035.54**	**137436.87**
9	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46um,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum.(P.No.176, I.No. 22.6.1) PWD SR 2018-19								
	Basic rate	4916.00							
	6% AW	294.96							
	Sub Total	5210.96							
	Kondappa layout								
	15th cross	1	25.00	3.00	0.10	7.50			

	cross road 1	1	26.00	4.00	0.10	10.40			
	cross road 2	1	13.00	2.20	0.10	2.86			
	cross road 3	1	20.00	2.00	0.10	4.00			
	cross road 4	1	73.00	2.00	0.10	14.60			
	8th cross (east)	1	54.00	5.00	0.10	27.00			
						66.36	Cum	5210.96	345799.31
								Total Construction Cost	1784791.36
								12% GST	214174.96
								Sub Total	1998966.32
								Miscellaneous & Rounding off	1,033.68
								GRAND TOTAL	2000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2018-2019.and Data Rates

Assistant Engineer
Ward No-02
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Administrative Approval

Accorded For Rs. 20.00 Lakhs
Head of A/C P.1771
CER NO :.....283..... Dt:25-2-19

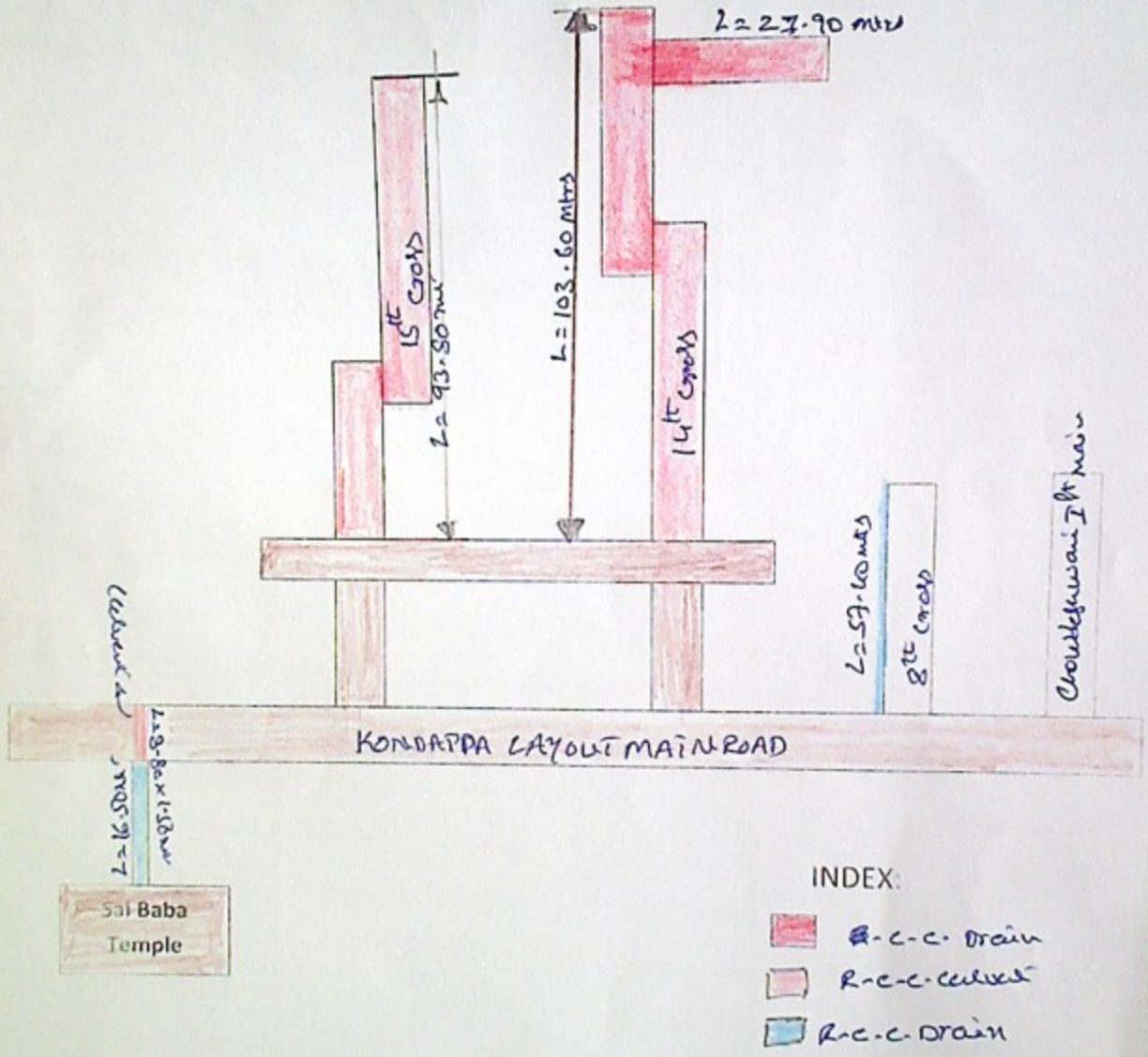
TA

CE (YNK),

TECHNICALLY SANCTIONED FOR Rs. 20.00 Lakhs
Rupees Twenty Lakhs Only
Under P.1771-2018-19
Registered as CE ( ) No 99
Subject to conditions contained in enclosed memo EE ( ) No /9/
Dt. Estimate A/ Sanctioned
EE/TS/49/18-19 No
Dated Rs. 20.00 Lakhs

Executive Engineer

Name of work : Improvements to roads and drains at Sai baba temple road in chowdeshwari ward no -02 of yelahanka Sub division



A.E

A.E.E
Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore